Department of Transportation (DOT) Performance Review

Director: Art Holmes

October 9, 2012



CountyStat Principles

- Require Data-Driven Performance
- Promote Strategic Governance
- Increase Government Transparency
- Foster a Culture of Accountability

Tracking Our Progress

Meeting Goals:

- Determine the impact of DOT programs and activities on headline measures and establish new performance expectations and goals
- Review ongoing departmental data collection efforts and discuss future projects that will further incorporate data into the decision making process

How will we measure success

- Updated performance plan is finalized and published to the web
- Ongoing monitoring of performance through Montgomery County Performance Dashboard





Agenda

- Status of Outstanding CountyStat Follow-up Items
 - Review Impact of Ride-on App and Website on MC311 Calls
- Review of DOT MC311 Service Level Agreement Performance
- Review of Headline Performance Measures
 - Focused Performance Analysis
 - Ride On Missed Trips Performance
 - Traffic Study Performance
- Wrap-up and Follow-up Items



Status of Outstanding CountyStat Follow-up Items



Status of Outstanding CountyStat Follow-Up Items

Meeting Date	Meeting Topic	Follow-Up Item	Due Date	CountyStat Status
07-Sep-12	311: Semi-Annual Performance Review	Analyze impact of Ride-On app to MC311 information requests related to Ride-On bus service.	16-Oct-12	In Progress
21-Nov-08	DOT Performance Plan	3. Develop an outcome measure that represents the results and effectiveness of traffic studies and the impact of DOT's implemented remedies.	23-Jan-09	Overdue
19-Feb-10	DOT Performance Review	Benchmark transit headline measure performance with WMATA data.	09-Apr-10	Complete
29-Apr-11	Overtime #11	Determine the net impact of bus operator vacancies on Department of Transportation overtime, factoring in available personnel resources due to vacant positions.	26-Jul-11	Overdue
23-Aug-11	Overtime #12	Work with departments to determine how overall departmental personnel budgets have changed over time. What should overtime budgets and ideal staffing numbers be.	21-Oct-11	In Progress
26-Aug-11	Ped Safety	Develop performance measure(s) to track the progress of the DOT sidewalk program toward meeting its various goals and objectives.	31-Oct-11	Overdue

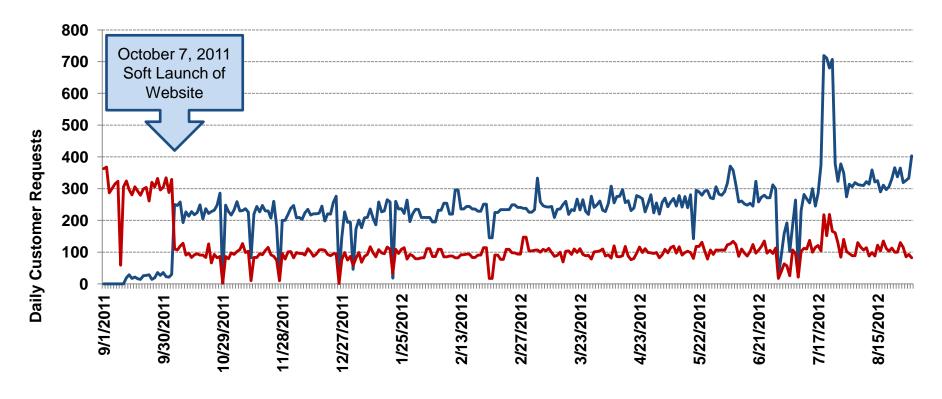


Status of Outstanding CountyStat Follow-Up Items

Meeting Date	Meeting Topic	Follow-Up Item	Due Date	CountyStat Status
16-Sep-11	MC311 Update	Hold future CountyStat session on DOT MC311 call volume with a focus on how the integration of new transit technologies will impact call volume	02-Jan-12	Overdue
09-Dec-11	DOT Performance Plan	Report on the status of DOT-Transit related performance with a focus on MC-311 related requests.	27-Jan-12	In Progress
26-Aug-11	Ped Safety	Continue to track and monitor the progress of the Pedestrian Safety Initiative	01-Feb-12	In Progress
06-Mar-12	OT Meeting #14	CountyStat will work with DOT to develop a net annual work hour report for DOT bus drivers in order to determine optimal staffing and overtime levels.	04-Jun-12	Overdue
14-May-12	Ped Safety	Analyze bicycle collision data in Montgomery County and contact jurisdictions throughout the region and Nation to determine impact of bike sharing programs and bikeway construction on bicycle collision statistics	31-Jul-12	In Progress
14-May-12	Ped Safety	Determine if there is a mechanism for measuring the relive growth of High Incident Areas (HIAs) in terms of population density, traffic congestion, and other variables to better evaluate the impact of the Initiative in these locations	01-Aug-12	Overdue



Impact of new Ride-On Website and Mobile App



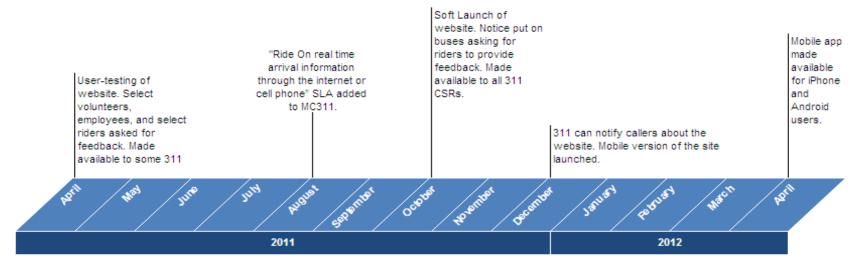
- —Ride On Real Time Arrival Information Through the Internet or Cell Phone
- —Ride On Trip Planning/Location/Status

Despite the launch of a new website and mobile app, Ride-On trip planning and real time arrival SLAs continue to top monthly MC311 rankings.





Impact of new Ride-On Website and Mobile App



- Use of the "Ride On real time arrival information through the internet or cell phone" solution area indicates that the MC311 operator used the Ride On app or website to fulfill the customer's request.
- Currently, the department is unable to determine whether MC311 customers are requesting bus arrival time or trip planning when this solution area is used.
- DOT is exploring methods to track downloads and hits to both versions of the website (mobile and traditional) and the mobile app.

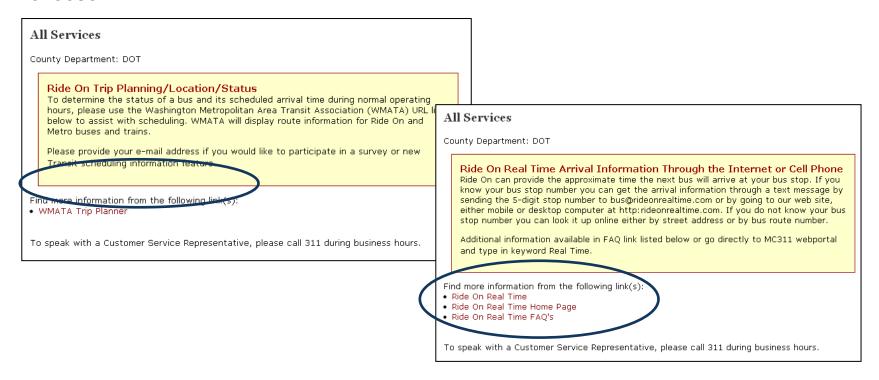
CountyStat recommends disaggregating the Ride On real time arrival information SLA into two SLAs: one for real time arrival and another for trip planning, so that DOT can have a better understanding of MC311 customer requests.





Impact of new Ride-On Website and Mobile App

Currently, MC311 customers and operators are directed to either the WMATA Trip Planner or the Ride On Real Time website, depending on the solution area they choose:



CountyStat recommends directing all customers and operators to a single trip planning program to standardize the trip planning process.





Review of DOT MC311 Service Level Agreement Performance



Overview of DOT Service Level Agreement (SLA) Findings

Disparity between SLA timeframe and actual days to complete indicates either a performance issue or the need to revise the existing SLA to more accurately capture the business process

- CountyStat identified instances where the difference between average networkdays and SLA agreement is +/- 3 days
- Only Solution Areas with at least 10 instances in the past 3 months (July September) are included

			Tree Maintenance	Traffic	Transit	Parking	Transportation Engineering
l. d.	Total SRs	1,174	798	146	137	4	0
July	Within 3 Days of SLA	507	45	19	34	3	0
A	Total SRs	1,043	744	201	96	4	0
August	Within 3 Days of SLA	352	151	26	30	3	0
Cantambar	Total SRs	858	553	150	108	8	1
September	Within 3 Days of SLA	287	73	6	44	1	1





Comparison of Net-workdays to Close Versus Service Level Agreement (3 or More Days Over)

Area	Attached Solution	SLA	Average Difference: SLA – Actual Days	SRs
Tree Maintenance	Tree Limb Hanging or Broken	5	+27	348
Tree Maintenance	Tree Ready to Fall	1	+23	99
Tree Maintenance	Bee Nest in Tree	5	+19	45
Tree Maintenance	County Tree Fell on Private Property (Car or House)	2	+18	46
Tree Maintenance	Status of Tree Prune or Removal	2	+15	197
Tree Maintenance	Tree Crew Removed Tree but Stem or Trunk Remains	10	+13	27
Traffic	Crosswalk Signal Repair	2	+11	22
Traffic	Dangerous or Knocked Over Stop Sign	2	+9	18
Highway Services	Roadway Resurfacing, Repaving Schedule or Timeline	5	+8	10
Traffic	Low Hanging Branches or Tree Blocking Traffic Signal, Sign or Light	5	+8	23
Highway Services	Status of storm drain repair	3	+8	11
Highway Services	Reassign Invasive Weeds/High Grass	2	+7	15
Highway Services	Clogged Storm Drain	3	+6	64
Highway Services			+3	45



Monthly Comparison of Net-workdays to Close Versus Service Level Agreement: Percent Completed within SLA

	July	August	September
Tree Limb Hanging or Broken	25%	15%	19%
Tree Ready to Fall	10%	35%	32%
Bee Nest in Tree	6%	26%	58%
County Tree Fell on Private Property (Car or House)	0%	50%	44%
Status of Tree Prune or Removal	12%	59%	75%
Tree Crew Removed Tree but Stem or Trunk Remains	9%	23%	38%
Crosswalk Signal Repair	25%	0%	43%
Dangerous or Knocked Over Stop Sign	75%	60%	100%
Roadway Resurfacing, Repaving Schedule or Timeline	60%	25%	100%
Low Hanging Branches or Tree Blocking Traffic Signal, Sign or Light	56%	44%	50%
Status of storm drain repair	50%	67%	67%
Reassign Invasive Weeds/High Grass	40%	33%	25%
Clogged Storm Drain	20%	34%	33%
Sinkhole Repair	58%	64%	75%



Comparison of Net-workdays to Close Versus Service Level Agreement (3 or More Days Under)

Area	Attached Solution	SLA	Average Difference: SLA - Actual Days	SRs
Tree Maintenance	Remove Tree Stump Timeframe	1,095	-1,074	70
Tree Maintenance	Replace a Tree	365	-336	85
Tree Maintenance	Tree Selection to Replant in the ROW	180	-161	21
Tree Maintenance	Replant Tree that was Removed from ROW	180	-155	37
Highway Services	Grass Damage from Non-Snow Events	90	-82	25
Highway Services	Object in Right-of-Way (ROW)	60	-54	19
Highway Services	Curb and Gutter Repair	60	-50	48
Highway Services	Street Drainage Repair	45	-33	97
Highway Services	Sidewalk Repair	45	-33	120
Traffic	Sight Distance	42	-22	28
Transit	Taxi Complaint	30	-21	11
Traffic	Traffic Signal Timing and Other Issues	30	-20	117
Traffic	Replace Damaged or Missing Street Sign	42	-18	145
Transit	Ride On Refund for Cash Lost in Bus Fare Box	20	-18	15
Highway Services	Erosion Repair	30	-16	28



Comparison of Net-workdays to Close Versus Service Level Agreement (3 or More Days Under)

Area	Attached Solution	SLA	Average Difference: SLA - Actual Days	SRs
Traffic	Request to Re-paint Road Striping or Lane Markings	30	-15	36
Highway Services	Litter Pickup	10	-8	22
Highway Services	Debris Pickup	10	-8	85
Highway Services	Road Repair	15	-6	276
Highway Services	Mowing	10	-6	59
Transit	Ride On Bus Stop or Bus Shelter	10	-5	38
Transit	Ride On Complaint - Service	12	-5	34
Transit	Ride On Complaint - Driver Behavior	12	-4	10
Tree Maintenance	Tree Inspection Verification or Door Hanger	31	-4	27
Tree Maintenance	Dead County Tree	31	-4	370
Transit	Ride On Real Time Arrival Information Through the Internet or Cell Phone	5	-3	12
Tree Maintenance	Request to Inspect or Prune County tree	31	-3	645
Tree Maintenance	Request to Cut Down Tree in Right-of-Way	31	-3	44
Highway Services	DOT Current Project Newsletters	5	-3	14
Highway Services	Highway Staff Compliment or Complaint	5	-3	31



Headline Performance Measures: Focused Performance Analysis



DOT Focused Performance Analysis

CountyStat analyzed DOT performance for all 12 headline performance measures and noted three that had notable performance change since FY11

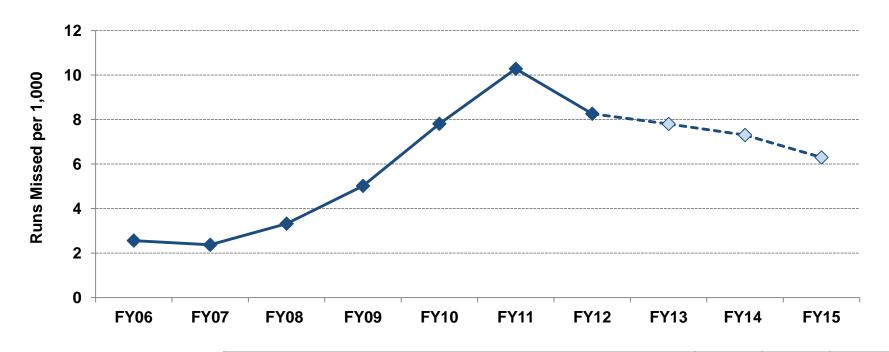
<u>Division</u>	<u>Headline Measure</u>	<u>FY11</u>	FY12	<u>Change</u>
Traffic	3) Traffic Studies Pending	225	243	—
Traffic	4) Average Days to Complete Traffic Study	49	52	<u></u>
Transit	9) Missed Trips per 1,000 Trips	10.28	8.26	1

- For each of these headline performance measures, CountyStat examined supporting data to determine how the department is currently using data to drive operational decisions
- From this analysis, CountyStat developed a series of recommendations on how the department can improve existing processes or continue to realize performance gains



Headline Measure: Missed Trips per 1,000 Trips

Transit Services



Scheduled Runs Missed per 1,000 Runs

FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
2.56	2.37	3.32	5.02	7.81	10.28	8.26	7.8	7.3	6.3
Projected FY12 Performance					8.30				



Department Explanation: Missed Trips per 1,000 Trips

Transit Services

Departmental Explanation for FY12 Performance:

- Transit Services has been aggressively hiring bus operators to keep vacancies down and staffing up to provide service
- Transit Services has supplemented the fleet with additional buses to increase reliability and bus availability

Departmental Explanation for FY13-FY15 Projections:

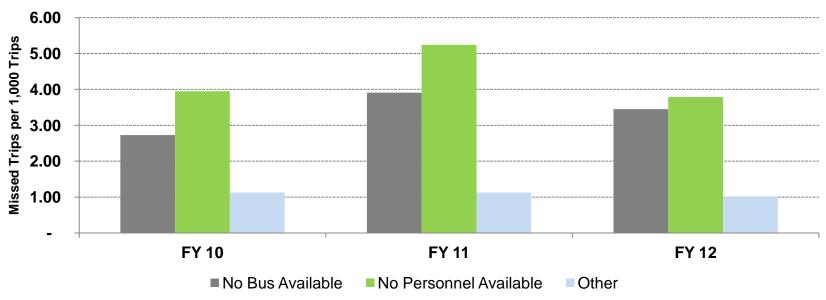
- DOT will be replacing all of its small fleet (FY13 and FY14 CIP) to improve service reliability and decrease missed trips
- In FY13 all of the small Champion buses were replaced with used buses as an interim measure until the new buses arrive in FY14 and FY15
- Aggressive hiring will continue until we can become fully staffed in bus operators



Focused Performance Analysis: Missed Trips per 1,000 Trips

Transit Services



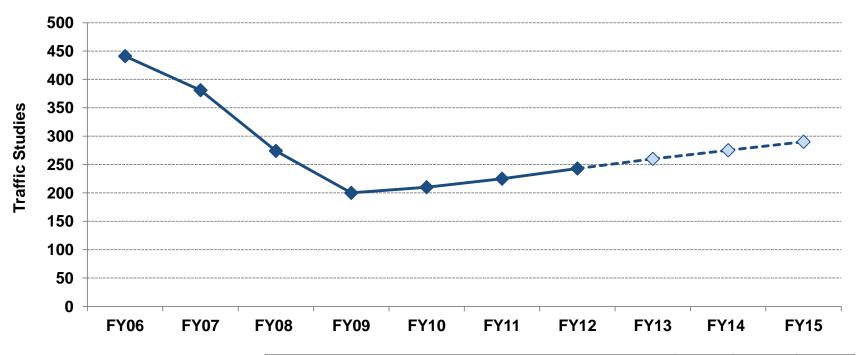


	FY10	FY11	FY12
No Bus Available	35%	38%	42%
No Personnel Available	51%	51%	46%
Other	14%	11%	12%



Headline Measure: Traffic Studies Pending at End of Year

Traffic Engineering and Operations



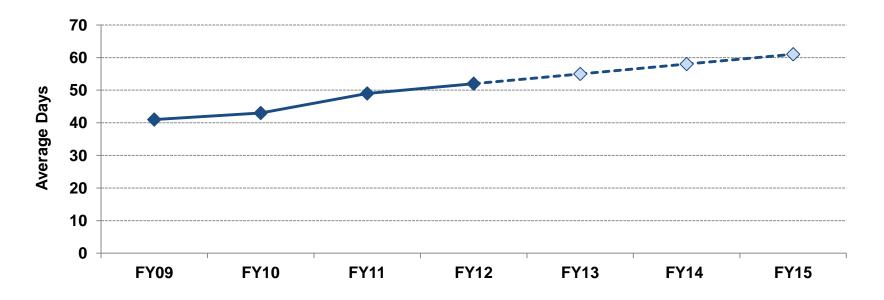
	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Traffic Studies Pending	441	381	274	200	210	225	243	260	275	290
	Projected FY 12 Performance			240						





Headline Measure: Average Number of Days to Complete Traffic Study

Traffic Engineering and Operations



Average Days to Complete
Average Days to Complete
Traffic Study
Trailic Study

FY09	FY10	FY11	FY12	FY13	FY14	FY15
41	43	49	52	55	58	61
·					-	- <u>-</u>

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Projected FY 12 Performance



Department Explanation: Traffic Study Measures

Traffic Engineering and Operations

Departmental Explanation for FY12 Performance:

 Contractual funds used to conduct traffic studies was eliminated in the budget for the last several years resulting in increased time to complete studies, and contributing to increase in the backlog.

Departmental Explanation for FY13-FY15 Projections:

 Recent abolishment of position and elimination of contractual funding will continue to increase time to complete studies and increase the backlog

Traffic Studies Conducted

FY06	FY07	FY08	FY09	FY10	FY11	FY12
409	451	390	265	207	225	243

- Traffic studies are categorized by type (e.g., speed humps, stop signs, crosswalks, pedestrian safety, etc) and complexity (simple, moderate and complex).
- Within those types and complexity, studies are generally processed by the order received unless DOT is directed to prioritize certain locations.
- Timeframes vary based on complexity of the issue involved. For simple studies, the target is 30 days. For moderately complex studies, the target is 60-90 days. For very complex studies, the target is 120 days.
- Studies that involve extensive public processes, such as speed humps and access restrictions, do not have specific targets.

10/09/2012

Focused Performance Analysis: DOT Explanation for Change in Performance

Traffic Engineering and Operations

DOT Budget and Staffing Timeline for Traffic Studies:

A position was added in FY 05 to address a large backlog of traffic studies, the backlog was around 600 in FY 04. In addition, consultant funding to address the backlog was also added to our budget around FY 06 to reduce the backlog.

As part of the FY 10 savings plan the department was asked to reduce the budget. The decision was made to eliminate the consultant funding with the understanding that the backlog of studies would begin to increase again.

Those consultant resources have not been restored.

We eliminated a position in the FY 12 budget as another budget reduction.





Review of Headline Performance Measures



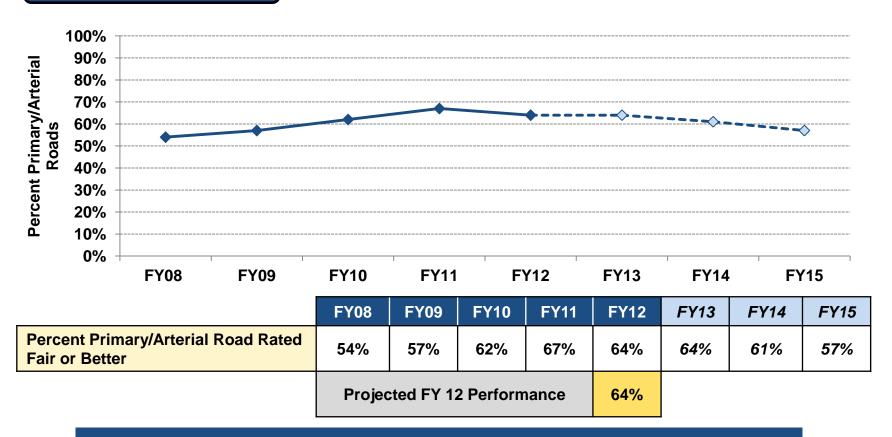
Overview of Headline Performance Measures

Division	Headline Measure	<u>FY11</u>	FY12	Change
Highway	1) Percent Primary/Arterial Road Rated Fair or Better	67%	64%	1
Highway	2) Percent Rural/Residential Road Rated Fair or Better	41%	44%	$\stackrel{\bullet}{\downarrow}$
Traffic	3) Traffic Studies Pending	225	243	-
Traffic	4) Average Days to Complete Traffic Study	49	52	-
Engineering	5) Projects Completed Within 3 Months	75%	70%	-
Engineering	6) Cost Estimates within 10% of Actual Costs	75%	100%	1
Transit	7) Passengers Per Capita	27.5	27.9	\bigoplus
Transit	8) Complaints per 100,000 Riders	26.9	27.1	\bigcirc
Transit	9) Missed Trips per 1,000 Trips	10.28	8.26	1
Transit	10) Accidents per 100,000 Miles	4.2	4.0	
Parking	11) PLD Expenses as % of Revenues	62%	64%	1
Parking	12) Customer Satisfaction Rate	TBD	3.41	



Headline Measure: Percent Primary/Arterial Road Quality Percent Rated Fair or Better (PCI>60)

Highway Services

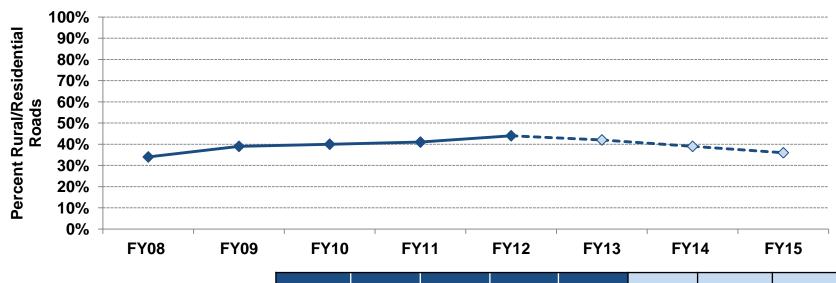


Percent primary/arterial roads rated fair or better has remained relatively consistent the last few years.



Headline Measure: Rural/Residential Road Quality Percent Rated Fair or Better (PCI>60)

Highway Services



Percent Rural/Residential Road
Rated Fair or Better

FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
34%	39%	40%	41%	44%	42%	39%	36%
							-

Projected FY12 Performance 44%

Percent rural/residential roads rated fair or better has remained relatively consistent the last few years.



Department Explanation: Road Quality Measures

Highway Services

Departmental Explanation for FY12 Performance:

- The 2010 survey data projected through FY18 indicates that 64% of the 966
 Lane Miles of Primary/Arterial Roads are rated at a PCI level of 60 or better
- The 2010 survey data projected through FY18 indicates that 42% of the 4157
 Lane Miles of Residential/Rural Roads are rated at a PCI level of 60 or better
- A PCI of less than 60 is undesirable
- Funding has sustained the number of primary roads that fall into the acceptable level

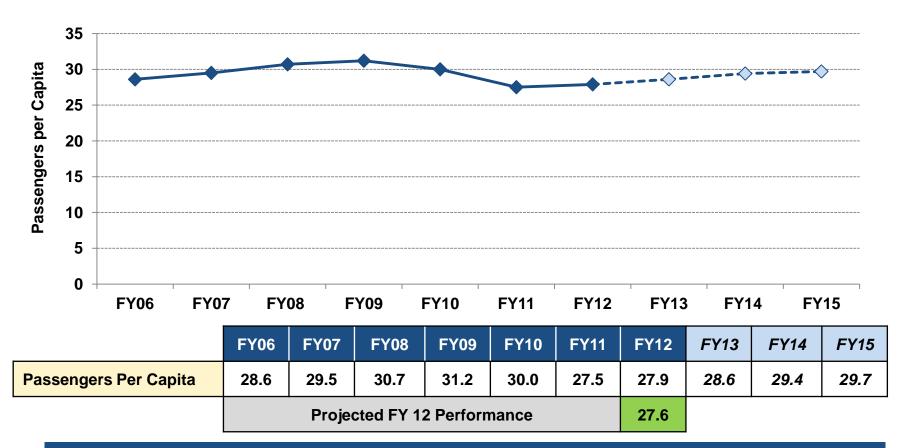
Departmental Explanation for FY13-FY15 Projections:

- Assumes declining performance in future years
- Actual performance will depend on the funding level



Headline Measure: Passengers per Capita

Transit Services



Passengers per capita decreased significantly between FY09 and FY11, but increased again in FY12, a trend which DOT believes will continue.



Department Explanation: Passengers per Capita

Transit Services

Departmental Explanation for FY12 Performance:

 Ridership increased slightly in FY 12 due to improved economy, higher gas prices and stabilization of Ride On service (no service reductions due to budget cuts)

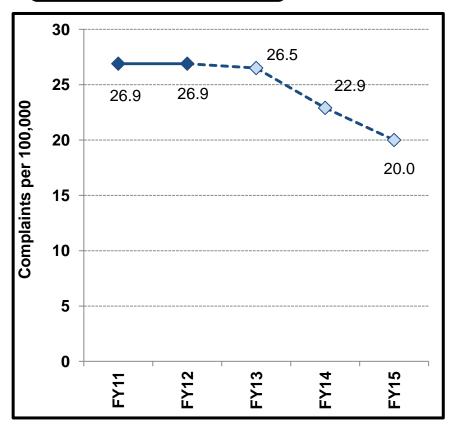
Departmental Explanation for FY13-FY15 Projections:

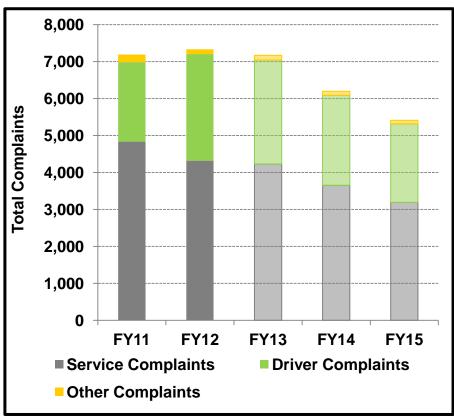
- Ridership is expected to increase in FY 13 due to additional service being added in January 2013.
- Increase in FY 14 expected due to full year of service added in FY 13
- Nominal increase expected in FY 15 unless additional service is added



Headline Measure: Complaints per 100,000 Riders

Transit Services





Complaints per 100,000 riders remained consistent from FY11 to FY12, but the share of driver complaints increased.



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Department Explanation: Complaints per 100,000 Riders

Transit Services

Departmental Explanation for FY12 Performance:

 In FY12 we purchased 15 used buses to supplement the small bus fleet and improve reliability, resulting in fewer complaints

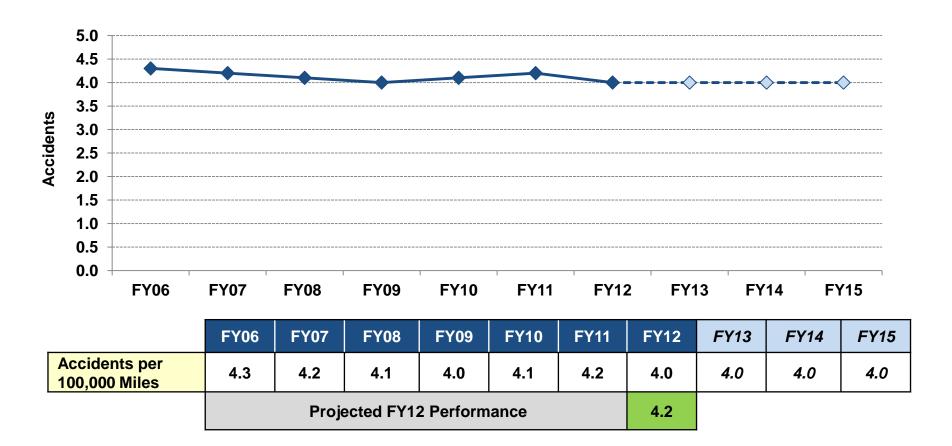
Departmental Explanation for FY13-FY15 Projections:

- Complaints expected to drop as older, less reliable buses are replaced
- Complaints expected to decrease with implementation of Comprehensive Driver Behavior Training and Improvements to Customer Service. As program is expanded in FY14 and FY15 complaints expected to decrease.
- Replacement of the small bus fleet (Champions) to improve service reliability and reduce complaints



Headline Measure: Accidents per 100,000 Miles

Transit Services



Accidents per 100,000 miles has remained consistent since FY06.



Department Explanation: Accidents per 100,000 Miles

Transit Services

Departmental Explanation for FY12 Performance:

- No significant change in FY 12, even with a high Bus Operator turnover and many new Bus Operators
- Trend since FY 06 has been decreased accidents

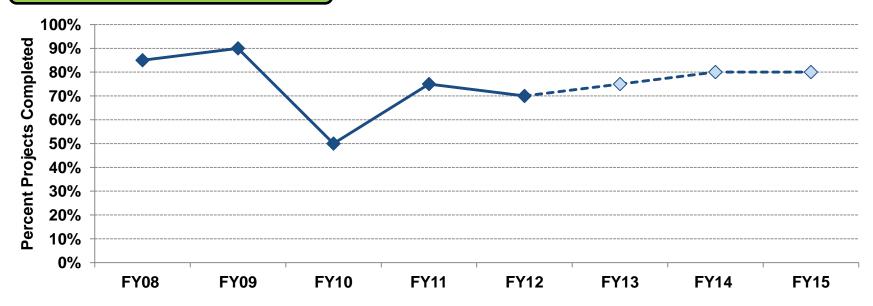
Departmental Explanation for FY13-FY15 Projections:

Projection is to continue at the current accident rate



Headline Measure: Projects Completed Within 3 Months of Schedule

Transportation Engineering



Percent Projects Completed within 3 Months

FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
1 100	1 103	1 1 10		1 1 1 2	1 113	1 1 1 4	1 113
85%	90%	50%	75%	70%	<i>7</i> 5%	80%	80%
Proje	ected FY12	Performa	ince	75%			

Total Projects Completed 11 10





Department Explanation: Projects Completed Within 3 Months of Schedule

Transportation Engineering

Departmental Explanation for FY12 Performance:

In FY12 one project was delayed due to WMATA's permit and approval process.

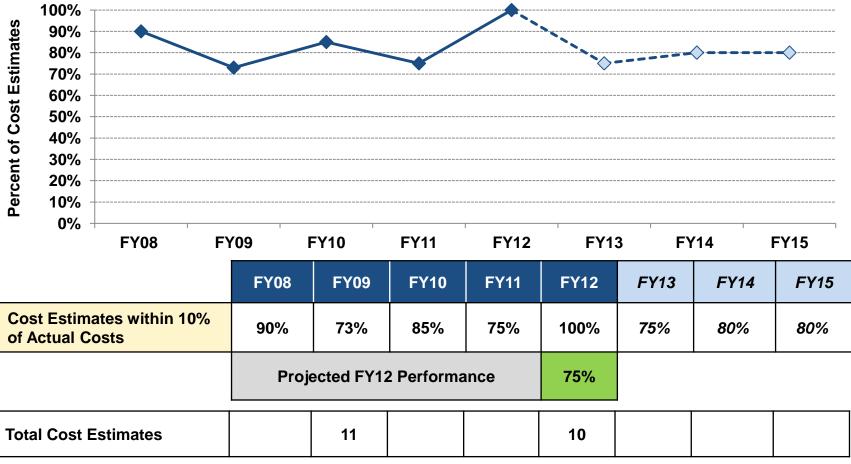
Departmental Explanation for FY13-FY15 Projections:

FY13-FY15 projects: Based on the progress of currently active projects, consistent production and timely completion of theses projects is anticipated. Also similar construction climate and production effort is anticipated for projects that will be advertised in the next two years.



Headline Measure: Transportation Cost Estimates within 10% of Actual Costs

Transportation Engineering





Department Explanation: Transportation Cost Estimates within 10% Performance Explanation

Transportation Engineering

Departmental Explanation for FY12 Performance:

 FY12 Cost Estimate of all Transportation projects were completed within 10% of Actual Costs due to low construction costs.

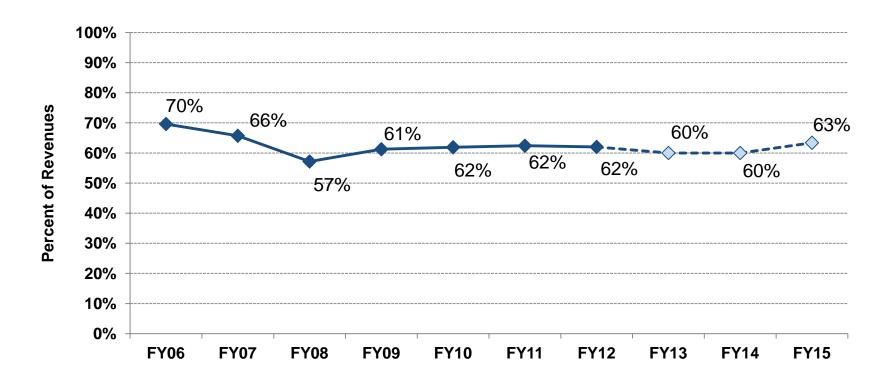
Departmental Explanation for FY13-FY15 Projections:

• The economy is improving and construction costs are expected to rise. Projects that will be advertised in the next two years have an Engineer's estimates based on current and recent construction costs that are expected to higher in FY13-15 than FY12.



Headline Measure: Expenses as Percent of Revenues

Parking Services



Expenses as a percent of revenues has remained consistent since FY09.



Supporting Data: Expenses as Percent of Revenues

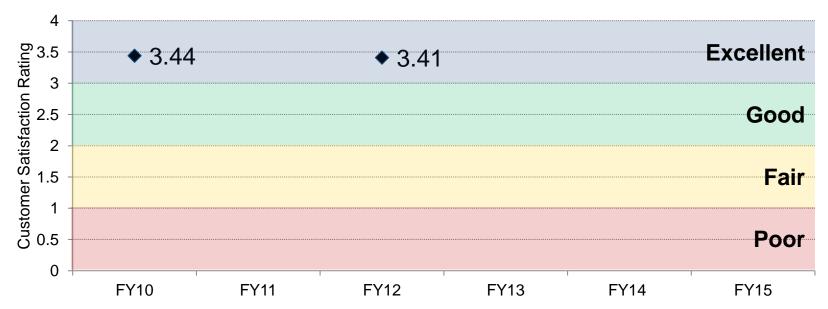
Parking Services

	Exp/Rev	<u>Expenses</u>	<u>Revenues</u>	<u>Explanation</u>
FY06	69.62%	\$22,276,582	\$31,999,339	Actual
FY07	65.71%	\$24,126,475	\$36,715,129	Actual
FY08	57.16%	\$22,497,166	\$39,355,146	Actual
FY09	61.24%	\$24,326,648	\$39,721,840	Actual
FY10	61.89%	\$23,738,133	\$38,354,207	Actual
FY11	61.64%	\$23,836,150	\$38,669,584	Actual
FY12	64.14%	\$25,905,580	\$40,389,370	Estimate
FY13	62.04%	\$25,430,757	\$40,991,800	Approved
FY14	61.33%	\$26,388,973	\$43,026,570	Projection
FY15	63.36%	\$28,672,009	\$45,253,592	Projection



Headline Measure: Parking Customer Satisfaction

Parking Services



Type of Customer	Availability	<u>Navigation</u>	Facility Condition	Safety and Security	Destination Convenience	Pay/ Sign-up Ease	Cost of Parking	<u>Overall</u>
Permit Holder	3.59	3.57	3.64	3.50	3.60	3.35	2.94	3.45
Visitor	3.46	3.50	3.46	3.46	3.56	3.27	2.96	3.38

Overall customer satisfaction remained the same, but in FY12 Cost of Parking ratings remained below all other categories for both permit holders and visitors.

Department Explanation: Headline Measure Performance

Parking Services

Departmental Explanation for FY12 Performance:

 FY12 actual revenue and expenditures are estimated pending release of the CAFR. The final ratio is estimated to be marginally better than the approved budget based on actual revenue and expenditure savings.

Departmental Explanation for FY13-FY15 Projections:

- Future improvement in the revenue to expense ratio is based on cost containment and planned parking rate increases.
- Customer satisfaction to be maintained at a highly successful level through customer service enhancement based on the continued introduction of new technologies.

Wrap-Up And Follow-Up Items

